

[illegible]

U. S. LAND OFFICE New Mexico  
SERIAL NUMBER 2443  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

# LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company San American Petroleum Corporation Address P. O. Box 457, Laramie, New Mexico  
 Lessor or Tract J. J. Hoover Field Horseshoe Bend State New Mexico  
 Well No. 3 Sec. 15 T. 30 R. 16 Meridian San Juan County San Juan  
 Location 110 ft. N of 1/4 Line and 916 ft. E of 1/4 Line of Section 15 Elevation 5416 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed \_\_\_\_\_ ORIGINAL SIGNED BY \_\_\_\_\_  
 \_\_\_\_\_ R. M. Bauer Jr.

Date June 6, 1960

The summary on this page is for the condition of the well at above date.

Commenced drilling ~~May 13~~, 19 ~~60~~ Finished drilling ~~May 16~~, 19 ~~60~~

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

No. 1, from 1393 to 1434 No. 4, from to  
No. 2, from 1457 to 1463 No. 5, from to  
No. 3, from to No. 6, from to

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

| Size casting | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated |     | Purpose    |
|--------------|-----------------|------------------|------|--------|--------------|---------------------|------------|-----|------------|
|              |                 |                  |      |        |              |                     | From—      | To— |            |
| 5-1/2"       | 14              | 8.7              | JES  | 1533   | Galv         |                     |            |     | Oil Strips |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used          | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|----------------------|-------------|--------------------|
| 6-5/8"      | 95'       | 120 sacks of cement    | B. J. Service 1 Plug |             |                    |
| 5-1/2"      | 1535'     | 120 sacks of cement    | B. J. Service 2 Plug |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

## SHOOTING RECORD

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## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

Cable tools were used from 0 feet to 1537 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## DATES

Completed as Pumping Oil Well Horseshoe Date first new oil produced  
~~also~~ field June 2, 1949 19 Put to producing \_\_\_\_\_, 19\_\_\_\_  
 The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which June 1 % was oil; \_\_\_\_\_ %

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. 104 Gravity, °Bé. 99.8

If gas well, cu. ft. per 24 <sup>hrs</sup> hours ----- Gallons gasoline per 1,000 cu. <sup>ft.</sup> of gas -----

Rock pressure, lbs. per sq. in.

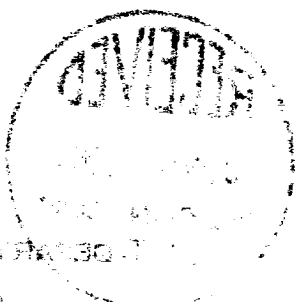
## EMPLOYEES

\_\_\_\_\_, Driller  
A. I. Old \_\_\_\_\_, Driller  
D. L. Wiley \_\_\_\_\_, Driller

# FORMATION RECORD <sup>1</sup> A. Walter

| FROM— | TO—  | TOTAL FEET | FORMATION                  |
|-------|------|------------|----------------------------|
| 0     | 95   | 95         | Surface sand and shale.    |
| 95    | 1360 | 1265       | Mancos shale.              |
| 1360  | 1393 | 33         | Gallup shale and sand.     |
| 1393  | 1537 | 144        | Gallup pay sand and shale. |
|       |      |            | (Tops from E Log)          |

(Tape from E Log)



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DATE 11-11-2011 BY 60322 UCBAW

NEW 240 24 40 50 50 1

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of pedrilling, together with the reasons for the work and its results. If there were any changes made in the casing, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Sounded 12-1/2" with May 13, 1960 and drilled to 85' at 6-1/2" casing at 95' with 100 sacks cement containing 1 percent calcium chloride. Circulated 40 sacks of cement. After waiting on cement, tested casing with 30 minutes which held with no reduction of pressure drop. Reduced hole to 7-7/8" at 95' and resumed drilling.

Total depth 1537'. Set 5-1/2" casing at 1537' followed by 50 sacks best cement. The last sack of cement was 1-1/2" rounds in the back followed by 50 sacks best cement. Released at May 17, 1960. After waiting on cement, circulated casing with 3000 psi which held with no indication of pressure drop.

The back depth 1537'. Estimated lower oil with 6 shots per foot 1457-1463'. and oil tracked with 10,000 gallons oil and 19,000 pounds sand. Breakdown pressure 2000-1350 psi, average testing point 820 psi. Injection rate 48 barrels per minute. Set bridge plug at 1467' and tested with 2000 psi which held with no indication of pressure drop. Saw junk basket and perforated upper tubing with 2 shots per foot 1393-1437' interval. Breakdown pressure 1500 psi, average testing pressure 1300 psi, average injection rate 47 barrels per minute. Cased bridge plug and allowed mud to clear back depth. Landed 24 inches per minute. In rock and sand.

Completed 5-1/2" casing with 4411 ft. of casing. Drilled 100 feet below bottom of hole. Pumped 100 barrels oil and gas with 16-psi strokes per minute with 1-1/2" pump. May 17, 1960. Total 42.20 ft.

# HISTORY OF OIL OR GAS WELL

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| FROM- | TO- | TOTAL FEET | FORMATION |
|-------|-----|------------|-----------|
|       |     |            | FORMATION |